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FIFTH ANNUAL REPORT

OF THE

Water Commissioners,

OF THE

CITY OF FITCHBURG, MASS.

UNIVERSITY OF ILLINOIS LIBRARY
AUG 1 2 1918

FITCHBURG:
PRINTED BY THE SENTINEL PRINTING COMPANY.
1878.

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WATER COMMISSIONERS' REPORT.

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REPORT.

WATER COMMISSIONERS' OFFICE.
December 1st, 1877.

To His Honor the Mayor and City Council:

The undersigned herewith submit their Fifth Annual Report.

SCOTT RESERVOIR DAM.

When the last report was presented there was no water in the reservoir and it continued in that condition till the first of March, when it began to fill and in a few days the water rose to the height of 24 feet. This was as much as it was thought safe to carry, and it was accordingly kept near that point till July 12. To dispose of the excess of water flowing into the reservoir between the above dates, the waste gate was opened and it ran off by the way of Scott Brook. Probably not more than 1-6 of the water falling on the water shed was retained in the reservoir. On Sept. 11th an order passed the City Council appropriating a sum not to exceed two thousand dollars for the "improvement and further construction" of the dam. The plan agreed upon and accepted was to raise the front of the dam, that is, the part between the cement wall and reservoir, seven feet, and the material to be used for that purpose the hard pan from the south side of the reservoir. Superintendent Lovell commenced on the work Sept. 11th, and employed men belonging to the city; in fact some of the men were dependent on the public

25 Dec. 16 Dist. Ct. U.S. Court

for help. These men were kept on the work most of the time till Nov 27th, when work was closed. The dam was raised about 9 feet with hard pan and was then covered with gravel to protect it from frost; the whole cost of which was less than the appropriation. The storage capacity of the reservoir is now one hundred and nine millions of gallons.

Cost of Scott dam to Nov. 30th, 1876,	$31,992 95
" " improvement and construction, Nov. 30, '77,	1934 17
Total cost to Nov. 30th, 1877,	$33,927 12

If everything about the dam appears as favorable next Sprin as at present we shall recommend its completion as soon as practicable.

OVERLOOK.

During several weeks of the past season this reservoir has been filled completely, and while in that state was considered safe. The water fell to its lowest point Feb. 1st, viz: 20 feet, and reached its highest May 20th, viz: 40 feet. That the dams connected with the reservoir are gradually growing stronger, firmer, and more impervious to water, may be shown by the fact that there is much less water flowing from their bases this season than on any previous year.

The black bass placed in the reservoir Aug. 19th, 1874, for the purpose of "keeping the water as free as possible from insects and other animal matter," are increasing in size and numbers, and from what we learn of the habits of this fish we believe it does and will hereafter aid in preserving the purity of the water. But to get the greatest benefit they must be protected and cared for. As the authority of the Commissioners on this matter was doubted, we applied to the City Solicitor, and received the following answer:

"Under the statutes of the Commonwealth, St. 1869, Ch. 384, the city has exclusive control of all fisheries in its reservoirs, and all fish artificially propagated therein are the property of the city, and all persons, whether inhabitants of the city or not, who fish therein without the consent of the Water Commissioners who have, under the city ordi-

nances, control and supervision of the water works, are liable to prosecution under the provisions of said chapter.

H. C. HARTWELL, *City Solicitor.*

To the Chairman Water Commissioners."

STREET MAINS.

This year there have been more than the usual number of leaks, breaks, and accidents on the main pipes. For a detailed statement see the report of the Superintendent. Last January the water in the cast iron pipe under the Rollstone street bridge froze, and the result was that almost every length burst. The same accident happened later in the season to the pipe under the bridge at Rockville. In both cases the pipe was ruined, and it was taken out and replaced by new pipe and then carefully boxed.

During a violent thunder storm on the sixth day of June, two houses were struck by lightning, one on Burnap street and one on Milk street. The electric fluid in both cases followed the surface pipes from the buildings to the 4 and 6 inch wrought iron cement lined main pipes, and when it reached these mains its path of ruin was fearful. In some cases a length of pipe would be split from end to end, others would be perforated with holes which in almost every case indicate that the fluid passed from the outside to the inside of the pipe. Nearly every joint on the two thousand feet of its course was opened, and one gate and two hydrants were so badly damaged as to be useless. The pipe was replaced by cast iron pipe, and the gate and hydrants by new gate and hydrants, the total cost of which was nearly $1700. This loss is added to the maintenance account of the current year. Three times our main pipes have been struck by lightning, and each time is more alarmingly suggestive of what accidents may happen from the same cause. Cannot some electrician give us a plan of protection?

METERS.

The number of meters set this season was 7, of which 1 was owned by the city and 6 by the water takers. We recommend their more gen-

eral use, as we believe the only just and equitable way of selling water is to measure it, and charge the consumer for what he uses and no more. Let it be measured and sold by the foot as gas is measured and sold. It might not be practicable to attach a meter to every faucet, or where but little water is used, but where large quantities are consumed meters would prevent a great waste which is going on under the present system.

We would respectfully call the attention of the City Council to the importance of allowing the commissioners to connect the West Fitchburg main with the high service pipes of the city by way of Kimball street, a distance of 3000 feet. This would be a great convenience in making repairs both to the water department and to water takers on the line, and also a matter of safety in case of fire, obviating the necessity of shutting off the water from 30 hydrants many times a year. Feb. 1st, Thomas C. Lovell for the third time accepted the appointment of Superintendent of the water works. In this office he has always proved himself competent, faithful, and efficient. We herewith present his report as a part of our own. Our thanks are due the members of the Water Committee for their uniform courtesy which has been shown us the past season.

SUPERINTENDENT'S REPORT.

Fitchburg, Dec. 1st, 1877.

To the Water Commissioners of Fitchburg:

GENTLEMEN:—I submit to you my Third Annual Report, showing the extensions, repairs and improvements made in the City Water Works during the year ending Nov. 30, 1877.

EXTENSION OF STREET MAINS.

The water mains have been extended as follows:

Orange street,	4 inch cast iron,	264.5	feet.
Cedar "	4 " "	146	"
Doane "	4 " "	443.8	"
Spruce "	6 " "	486	"
Vernon "	4 " "	280	"
Temple "	4 " "	180	"

HYDRANTS.

Three new hydrants have been set for the city and two for other parties. Number of hydrants owned by the city, 174; by other parties, 19.

SERVICE PIPES.

The street mains have been tapped for service pipes in 96 places. Total number of taps to date, 1021. 7,182.7 feet of service pipe has been laid this year, of which 2,269.6 feet has been charged to takers and 4,913.1 feet to the city. Total length of service pipes in use, 57,102.45 feet; the city owning 32,564.85 feet, and other parties 24,537.6 feet.

Water is now supplied as follows:

Families,	1,198	Printing offices,	3
Stores and offices,	99	Almshouse,	1
Manufactories,	24	Court House,	1
Stables,	62	Jails,	1
Boarding Houses,	7	City Hall,	1
Engine and Hose Houses,	7	Foundries,	4
Drinking hydrants,	2	Railroads,	2
Watering troughs,	2	Laundries,	1
Water-cart posts,	4	Bakeries,	2
School-houses,	8	Hotels,	2
Paper mills,	8	Woolen mills,	2
Brick yards,	1	Dye houses,	2
Hot houses,	2	Gas companies,	1

Total, 1447.

METERS.

There are now in use 69 meters of the Ball & Fitts make—an increase of 7 over last year. They are of the following sizes: 1 two inch, 3 one and one-half inch, 5 one inch, 11 three-fourths inch, 52 five-eighths inch —of which 6 are owned by the city and 63 by takers.

RAIN-FALL.

Below is a table of the rain-fall for each of the last twelve months, which was kindly furnished by Dr. J. Fisher.

December, 1876,	1.68 inches.	Feb, 1877,	.34 inches.
January, 1877,	1.70 "	March, "	6.15 "

April,	1877,	2.94 inches,	August, 1877,	2.40 inches.	
May,	"	2.73 "	September, 1877,	.44	"
June,	"	2.45 "	October,	"	7.04 "
July,	"	3.40 "	November,	"	5.64 "

Total rain-fall for the year, 36.91 inches, which is 5.09 inches less than the ave

RESERVOIRS.

On account of there being a fishy taste to the water, Marshall reservoir was emptied July 17th, and the basin thoroughly cleansed. Nothing, however, was found to account for the bad taste. Arrangements have been made by which water is to be taken from a point nearer the surface than it is at present.

REPAIRS, ALTERATIONS, ETC.

The High Service main, near the Rollstone House, which has been a source of trouble since the Works were first constructed, has been taken up, and replaced with cast-iron pipe. A quarter turn was made at the corner, instead of a right angle branch. No farther trouble is apprehended at this place.

January 26th, the cast-iron pipe suspended under Rollstone bridge froze and burst for a distance of 100 feet. This was replaced, boxed, and packed with sawdust, to prevent freezing again.

June 6th, the water mains in the following streets were completely ruined by lightning: Milk, 851 feet of 6 inch; Burnap, 577 feet of 4 inch; Winthrop, 487 feet of 4 inch; also, two hydrants and one 4 inch gate. These pipes were taken up and replaced with cast iron. The water takers on these streets were again supplied with water June 11th.

Below is a table showing number and location of leaks, the cause of the same, and manner of repairing them.

Date.	Leaks.	Location.	Cause.	Manner of Repairing.
Dec. 2	1	West st.	Imperfect joint.	Wound.
" 5	2	Rollstone st.	Jt. wound before.	"
" 7	1	Highland ave.	Imperfect joint.	"
" 8	2	" "	" "	"
Jan. 11	1	West st.	" "	"
" 23	1	Rollstone st.	Jt. wound before.	" [pipe.
" 26	Burst.	" "	Frozen.	100 ft. replaced with new
Feb. 9	1	Franklin st.	Imperfect joint.	Wound. [pipe.
" 19	Burst.	Sanborn road.	Frozen.	50 feet replaced with new
" 24	1	Lunenburg st.	Lead connection.	Replaced with new pipe.
" 26	Burst.	Myrtle st.	Rust.	" " " "
" 27	1	Prospect st.	Lead connection.	" " " "
" 28	1	River st.	Wound before.	Wound.
Mar. 2	1	" "	Imperfect joint.	"
" 6	1	Everett st.	Service pipe.	Replaced with new.
" 7	1	Main st.	Jt. wound before.	Wound.
" 8	4	" "	" " "	Replaced with cast iron p.
" 16	1	Highland ave.	Imperfect joint.	Wound.
" 27	2 bst.	Otis st.	Rust.	Replaced with new.
" 29	1	Grove st.	Lead connection.	" " "
Apr. 17	3	Arlington st.	Wound before.	Wound.
" 25	1	Nashua st.	Imperfect joint.	"
June 6	Burst.	Boutelle st.	Rust.	Replaced with new.
" 23	1	Garnet st.	Service pipe.	" " "
" 25	1	South st.	Wound before.	Wound.
July 19	2	Main st.	" "	"
" 25	1	River st.	Imperfect joint.	"
Aug. 9	1	Kimball st.	Rust.	"
" 9	1	Rollstone st.	Wound before.	"
" 22	1	Main st.	" "	"
" 26	Burst.	Caldwell st.	Imp'rfect casting.	Replaced with new.
" 27	1	River st.	Wound before.	Wound.
" 31	1	Linden st.	Rust.	"
Sept. 2	Burst.	Kimball st.	"	Replaced with cast iron.
" 6	2	Arlington st.	Wound before.	Wound.
" 7	1	Pleasant st.	Imperfect joint.	Lead packing tamped.
" 13	1	Simonds st.	Lead connection.	Replaced with new.
" 18	Burst.	Main st.	Rust.	" " cast iron.
" 18	1	Grove st.	Lead connection.	" " new.
" 26	1	First st.	Rust.	Wound.
" 27	1	Arlington st.	Wound before.	"
Oct. 24	1	River st.	Imperfect joint.	"
" 30	1	Mt. Vernon st.	Lead connection.	Replaced with new.
" 30	1	Pleasant st.	Imperfect joint.	Lead packing tamped.
Nov. 14	1	River st.	" "	Wound.
" 20	1	Maple st.	Lead connection.	Replaced with new.
" 21	1	Simonds st.	Wound before.	Wound.
" 23	1	Water st.	Imperfect joint.	"
" 28	1	Rollstone st.	Wound before.	Replaced with cast iron.
" 30	1	Clinton st.	Lead connection.	" " new.

It will be seen by the table that 23 out of 38 joint leaks had been previously wound, the cause of this trouble being that the sheet iron sleeve used to cover the winding was not wide enough, and when the twine gave out the joint leaked. This has been remedied by using a cast-iron clamp sleeve, made with three chambers, the center one covering the winding and the end chambers being filled with cement-mortar, which gives a perfect joint after the twine gives out.

Value of stock and tools at shop under City Hall,		$3,395 20
" " " "	pipe-yard, Academy street,	5,127 17
" " " "	Scott reservoir,	1,595 08

as per schedule filed with Water Registrar.

I would express thanks to the Commissioners for their courtesy and readiness to give assistance at any and all times.

Respectfully submitted,

THOMAS C. LOVELL,

Superintendent.

We present herewith the items of expenditure and receipts on account of construction and maintenance.

CONSTRUCTION ACCOUNT,

Water Department, for year ending Nov. 30th, 1877.

Dec. 1, 1876. To Tools and materials on hand,		$7,579 25
	Perkins & Pattee, hydrants,	45 50
	Morris, Tasker & Co., pipe,	23 25
	Heywood, Wilson & Co., castings,	25 84
	G. H. Litchfield, teaming,	9 70
	J. C. Hayden, blacksmithing,	13 57
	Heald & Britton, castings,	36 72
	County of Worcester, lead, &c.,	62 79
	Putnam Machine Co.,	3 28
	Boston Machine Co., gate,	65 70
	I. C. Wright, sundries,	26 27
	W. A. Hardy, brass work,	18 54
	J. P. Sabin, sundries,	5 10
	B. C. F. & N. B. Railroad, freight,	6 00
	Pay roll,	320 49
January, 1877.	Geo. E. Waite, blacksmith,	8 95
	J. M. Peck, horse hire,	17 50
	C. A. Priest, lumber,	16 87
	I. C. Wright, sundries,	8 50
	Dennis Morrisey, labor,	4 52
	Parks & Carpenter,	8 12
	Heywood, Wilson & Co., castings,	46 84
	G. B. Knowlton, sundries,	18 28
	Geo. K. Paul & Co., pipe,	379 74
	Water Meter Co., meters,	61 25
	Putnam Machine Co.,	8 00
	Fitchburg Railroad Co., freight,	31 39
	Geo. Robbins & Co., lead,	28 18
February,	A. B. Lawrence & Co., sundries,	28 02

	Morris, Tasker & Co., pipe,	$312 11
	Fitchburg Railroad Co., freight,	17 12
March,	L. Horsley, binding plans,	48 00
	Morris, Tasker & Co., pipe,	5 35
	A. B. Lawrence, sundries,	20 47
	G. B. Knowlton, sundries,	9 14
	Union Water Meter Co.,	42 50
	Mohawk & Hudson Manfg. Co., valves,	29 26
	A. J. Green, ladders, &c.,	12 20
	Heywood, Wilson & Co., castings,	19 48
April,	Water Meter Co., meter,	21 00
	G. B. Knowlton, sundries,	7 02
	J. B. Sargent, brass work,	122 90
	J. S. Marble, blacksmithing,	9 65
	Lyman Patch, lead,	18 50
	Heywood, Wilson & Co., castings,	58 70
	R. D. Wood & Co., pipe,	294 24
	Fitchburg Railroad, freight,	43 27
	Pay roll,	300 48
May,	T. C. Lovell, sundries,	11 08
	Mohawk & Hudson Manfg. Co., valves,	24 50
	Heywood, Wilson & Co., castings,	48 42
	H. B. Dyer, roofing,	23 03
	Union Water Meter Co.,	105 50
	M. W. Emory, S. D.,	7 50
	C. A. Priest, lumber,	29 05
	Pay roll,	344 86
June,	A. B. Lawrence & Co., sundries,	27 43
	Boston Lead Co., lead,	65 38
	Ludlow Valve Co., valves,	36 65
	Morris, Tasker & Co., pipe,	23 00
	I. C. Wright, sundries,	55 84
	Heywood, Wilson & Co., castings,	32 62
	G. B. Knowlton, sundries,	24 22

	Parks & Carpenter, pipe, &c.,	13 60
	J. B. Sargent, brass work,	59 28
	R. D. Wood & Co., pipe,	1,033 76
	Fitchburg Railroad Co., freight,	206 87
	Mohawk & Hudson Manfg. Co., hydrants,	78 40
	Geo. H. Sampson, rock rend,	14 11
July,	F. W. Aldrich, blacksmithing,	18 85
	J. G. Hayden, blacksmithing,	5 74
	Union Water Meter Co., meters,	101 88
	Fitchburg Railroad Co., freight,	5 29
	I. C. Wright, sundries,	10 11
	Geo. K. Paul, pipe,	56 25
	J. Baldwin, powder and fuse,	64 00
	H. W. Wyman, teaming,	32 00
	Boston Lead Co., lead,	76 49
	Ludlow Valve Co., valves,	36 65
	Parks & Carpenter, pipe, &c.,	13 53
	A. W. Hubbard, brass work,	16 57
August,	W. H. Goodwin, labor,	11 44
	Union Water Meter Co., meters,	68 50
	B. C. F. & N. B. Railroad Co., freight,	231 29
	R. D. Wood & Co., pipe,	1,827 69
	Fitchburg Railroad Co., freight,	8 02
	I. C. Wright, sundries,	24 79
	Pay roll,	542 73
	Rollstone Iron Foundry, castings,	32 35
	W. A. Hardy, brass work,	12 95
September,	Pay roll, S. D.,	654 98
	" city,	356 25
	J. G. Hayden, blacksmithing,	14 81
	" " "	12 54
	I. C. Wright, sundries,	44 54
	H. W. Wyman, teaming,	41 00
	Putnam Machine Co.,	12 50

September, '77,	W. S. Kershaw, teaming,	12 50
	Union Water Meter Co., meters,	150 20
	A. B. Lawrence & Co., sundries,	15 77
	John Linnehan,	17 61
	Parks & Carpenter, pipe,	28 33
	G. B. Knowlton, sundries,	14 67
	Boston Machine Co., gate,	35 70
	F. W. Aldrich, blacksmithing,	11 35
	H. J. Kimball, lead,	29 04
	Heywood, Wilson & Co., castings,	59 06
	J. Baldwin, powder and fuse,	37 41
	Geo. H. Sampson, rock rend, &c.,	24 50
	J. W. Stone, gong,	125 00
	J. W. Rand, telegraph poles,	20 75
October,	W. H. Lowe, freight and jobbing,	14 29
	B. C. F. & N. B. Railroad Co., freight,	4 03
	Fitchburg Railroad Co., freight,	13 00
	Heywood, Wilson & Co., castings,	61 10
	Geo. K. Paul & Co., pipe,	39 60
	A. B. Lawrence & Co., hardware,	18 64
	H. W. Wyman, teaming,	77 00
	J. C. Hayden, blacksmithing,	8 72
	Union Water Meter Co., meters,	137 00
	S. N. Holman, lead,	29 15
	I. C. Wright, hardware,	20 40
	R. D. Wood & Co., pipe,	162 37
	B. F. Eddy,	2 50
	W. A. Hardy, brass work,	115 50
	Pay roll, city,	434 24
	" S. D.,	689 79
	Fitchburg Railroad Co., freight,	25 89
	A. K. Lissburger, lead,	29 19
	R. D. Wood, pipe,	149 85
	L. Patch, lead,	36 60

	Parks & Carpenter, sundries,	11 96
	J. Hayes & Co., stop boxes,	28 80
	H. W. Wyman, teaming,	42 45
	Mohawk & Hudson Manufg. Co., valves,	53 90
	Pay roll, City,	450 95
	" S. D.,	589 50
	2-3 Superintendent's salary,	733 33
	2-3 Commissioners' "	159 00
	Fare,	2 00
		$21,620 96

Cr.

By	Cash due on bills, service pipe,	$590 71
	Tools and supplies at City Hall,	3,395 20
	" " " " pipe yard,	5,127 17
	" " " " Scott reservoir,	1,595 08
	Bills due on service pipe,	2,635 03
	Repairs charged Geo. H. Norman,	212 85
	Balance carried to new account,	8,064 92
		$21,620 96

MAINTENANCE ACCOUNT

Water Department for year ending Nov. 30, 1877.

Dec. 1, 1876, To	T. C. Lovell, sundries,	$35 94
	W. K. Bailey, collecting,	7 00
Jan. 1877,	T. C. Lovell, sundries,	33 20
	F. M. Whitney, "	5 17
	J. C. Hayden, blacksmithing,	6 01
	Pay roll,	304 37
	Ashburnham Reservoir Co.,	100 00
	F. E. Sheldon, labor,	5 00
	John Choate, glycerine for hydrants,	10 05

	J. C. Jones & Co., repairing pump,	21 45
Feb. "	W. H. Lowe, teaming,	11 34
	Beckwith Lumber Co., lumber,	15 25
	Parks & Carpenter, supplies,	6 52
	A. L. Proctor, rend rock,	6 40
	T. C. Lovell, sundries,	17 60
	Pay roll,	225 85
March, "	Richard T. Ritchie, twine,	16 56
	L. McMaster, teaming,	4 00
	I. C. Wright, sundries,	12 43
	B. P. Fitzgerald, soldering,	4 50
	C. Day, jobbing,	9 00
	J. C. Hayden, blacksmithing,	13 32
	Pierce & Chapman, rubber,	18 20
	T. C. Lovell, sundries,	11 80
	Pay roll,	271 65
April, "	A. B. Lawrence & Co., sundries,	7 00
	A. L. Proctor, rend rock,	18 40
	T. C. Lovell, sundries,	16 50
May, "	H. W. Wyman, teaming,	37 00
	Chas. Hastings, wood,	17 55
	W. S. Kershaw, jobbing,	5 00
	Boston Lead Co., lead,	67 31
	J. C. Hayden, blacksmithing,	13 59
	F. M. Whitney, sundries,	5 11
	Parks & Carpenter, pipe,	6 75
	C. S. Merriam, rent,	6 00
	Hitchcock, Priest & Aldrich, rent,	126 00
	Parker & Sargent, brass work,	26 04
	A. B. Lawrence, sundries,	7 43
June, "	Marshall & Caldwell, water,	25 00
	Sewell Day & Co., twine,	8 55
	J. C. Hayden, blacksmithing,	6 52
	L. Sprague & Co., sundries,	6 64

		F. M. Whitney,	3 45
		Richard T. Ritchie, twine,	16 32
		Charles Gerry, labor,	10 50
		Shepley & Baker, blanks,	28 25
		H. W. Wyman, teaming,	70 75
		City of Worcester, pipe,	711 97
		Putnam Machine Co.,	5 60
		W. H. Lowe, teaming,	22 82
		Rollstone Iron Foundry,	9 04
		Pay roll,	409 37
		T. C. Lovell, sundries,	14 49
		Pay roll (special, Milk street),	175 37
July,	"	C. B. Coburn, clay,	3 50
		T. C. Lovell, sundries,	17 04
		Pay roll,	412 89
		Z. Fortier,	10 00
Aug.	"	H. P. Tyrrell, repairs,	2 95
		T. C. Lovell, sundries,	7 15
		William Tobin, lead,	14 38
		Heywood, Wilson & Co., castings,	31 46
		A. B. Lawrence & Co.. sundries,	6 50
Sept.	"	T. C. Lovell, "	5 22
		L. Sprague & Co., "	3 10
		F. M. Whitney,	4 06
		Richard T. Ritchie, twine,	16 80
		J. P. Sabin, painting hydrants,	26 40
		B. F. Eddy, repairs,	12 00
		J. M. Peck, horse hire,	27 75
Oct.	"	Putnam Machine Co., supplies,	6 90
		W. S. Kershaw, jobbing,	5 00
		W. W. Shattuck,	5 00
		Geo. H. Chapman, rubber, etc.,	30 06
		G. B. Knowlton, hardware,	9 10
		" " "	4 60

A. B. Lawrence, hardware	27 12
W. S. Kershaw, jobber,	3 95
J. C. Hayden, blacksmithing,	4 62
E. G. Poole, "	22 65
Putnam Machine Co.,	3 15
F. M. Whitney, oil,	2 55
I. C. Wright, sundries,	4 43
T. C. Lovell, "	14 62
J. Pierce, leather,	3 88
J. M. Peck & Co., horse hire,	28 75
H. J. Kimball, packing,	2 95
T. C. Lovell, jobbing,	35 00
1-3 Water Commissioners' salary,	79 50
1-3 Superintendent's "	366 67
	$4318 63
Balance carried to Sinking fund,	8751 78
	$13,070 41

CONTRA.

Cash due for rent,	$70 00	
" " water,	1,853 98	
" received for water,	11,146 43	
		$13,070 41

We estimate the cash maintenance for the next fiscal year as follows:

1-3 Superintendent's salary,	$400 00	
1-3 Commissioners' salaries,	150 00	
Labor and supplies,	1200 00	
Sundries,	150 00	
		$1900 00

C. H. BROWN,
STEPHEN SHEPLEY,
GEO. W. HOLMAN. } Water Commissioners.

UNIVERSITY OF ILLINOIS-URBANA
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